CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/CEMENT/2013-14

Date: 14.03.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager**, KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	460 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ
ಬೃ ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/SAND/2013-14 : 14.03.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014

Date of Testing : 14.03.2014

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	104	5.20	5.20	94.8	90-100
2.36	228	11.40	16.60	83.4	75-100
1.18	518	25.90	42.50	57.5	55-90
600 Micron	416	20.80	63.30	36.7	35-59
300 Micron	485	24.25	87.55	12.5	8-30
150 Micron	203	10.15	97.70	2.3	0-10

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Job No.: CTCE/BBMP/W.No.10/KRIDL/AGG/2013-14 : 14.03.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014

Date of Testing : 14.03.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25800**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1018	3.95	3.95	96.05	95-100
20	15742	61.02	64.96	35.04	30-70
10	6124	23.74	88.70	11.30	10-35
4.75	2576	9.98	98.68	1.32	

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Job No.: CTCE/BBMP/W.No.10/KRIDL/STEEL/2013-14 17.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the work	:	Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014
Date of Test	:	17.03.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	547	12.90	O.K	O.K

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/STEEL/2013-14 17.03.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the work	:	Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014
Date of Test	:	17.03.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	551	13.25	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 18.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2014	18.04.2014	8.267	498.2	22.14
2	21.03.2014	18.04.2014	8.345	505.8	22.48
3	21.03.2014	18.04.2014	8.176	487.9	21.68

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 21.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2014	21.04.2014	8.264	485.2	21.56
2	24.03.2014	21.04.2014	8.453	503.7	22.39
3	24.03.2014	21.04.2014	8.368	497.8	22.12

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14

24.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2014	24.04.2014	8.265	493.7	21.94
2	27.03.2014	24.04.2014	8.398	506.4	22.51
3	27.03.2014	24.04.2014	8.472	510.2	22.68

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 26.04.2014

TEST REPORT ON CONCRETE CUBES

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Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2014	26.04.2014	8.146	489.2	21.74
2	29.03.2014	26.04.2014	8.239	495.6	22.03
3	29.03.2014	26.04.2014	8.378	506.3	22.50

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 28.04.2014

TEST REPORT ON CONCRETE CUBES

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Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2014	28.04.2014	8.180	478.3	21.26
2	31.03.2014	28.04.2014	8.392	487.2	21.65
3	31.03.2014	28.04.2014	8.278	496.7	22.08

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 29.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
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Reference	: AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2014	29.04.2014	8.285	480.6	21.36
2	01.04.2014	29.04.2014	8.394	491.8	21.86
3	01.04.2014	29.04.2014	8.476	498.3	22.15

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2013-14 30.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to Main Road and Cross at BEL 2nd Block in Ward No.10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/VSD/PR/451/2/2013-14 Dated: 11.03.2014
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2014	30.04.2014	8.287	493.7	21.94
2	02.04.2014	30.04.2014	8.169	482.6	21.45
3	02.04.2014	30.04.2014	8.345	500.4	22.24

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